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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/777,702	02/06/2001	Kevin T. Foley	4002-2475	4350	
7	590 07/02/2002				
Douglas A. Collier Woodard, Emhardt, Naughton, Moriarty and McNett Bank One Center/Tower 111 Monument Circle, Suite 3700 Indianapolis, IN 46204-5137			EXAMINER		
			JACKSON, SUZETTE JAMIE		
			ART UNIT	PAPER NUMBER	
maianapono, n	10201 3137		3738	7	
			DATE MAILED: 07/02/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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		Application No.	Applicant(s)				
		09/777,702	FOLEY, KEVIN T.				
Office Action Summary		Examiner	Art Unit				
		Jackson J Suzette	3738				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	ith the correspondence address				
THE   - Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thin will apply and will expire SIX (6) MOI, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.			
1)⊠	Responsive to communication(s) filed on 12 J	lune 2002 .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
· _	ion of Claims						
•	Claim(s) 1-39 is/are pending in the application.						
	4a) Of the above claim(s) <u>29-33</u> is/are withdrawn from consideration.						
· · ·	Claim(s) is/are allowed.						
· · · ·	Claim(s) 1-28 and 34-39 is/are rejected.						
· · · · · ·	Claim(s) is/are objected to.	1					
•	Claim(s) are subject to restriction and/or ion Papers	r election requirement.					
9)	The specification is objected to by the Examine	r.					
10)🖂	The drawing(s) filed on <u>06 February 2001</u> is/are	: a)□ accepted or b)⊠ ob	jected to by the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
11) 🗌	The proposed drawing correction filed on	_is: a)☐ approved b)☐ o	disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12)  The oath or declaration is objected to by the Examiner.							
Priority (	ınder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* 5	3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	)						
Attachmen	-	, ,					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2-</u>	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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### **DETAILED ACTION**

### Election/Restrictions

1. Claims 29-33 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group II, there being no allowable generic or linking claim.

Election was made without traverse in Paper No. 6.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. The claims are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: In claim 1 lines 3 and 5 applicant needs to insert -- and configured

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to extend -- after "body portion" in order to avid positively reciting the upper and lower vertebrae in combination with the implant.

# **Drawings**

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: "90". A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-28 and 34-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Day et al. 4,892,545 in view of Boyd et al. 6,206,923. **Day et al**. discloses the shape/structure including: a body portion (10) positioned in the disc space between adjacent upper and lower

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vertebrae with an upper member (26) extending from the body portion along the body of the upper vertebra; and a lower member (26) extending from the body portion along the body of the lower vertebra however Day et al. does not disclose a bone material with demineralization properties. **Boyd et al.** teaches the use of flexible intervebral spinal implants using partially demineralized (and some completely demineralized; col. 3, lines 21-48) bone along certain segments of the implant and methods of demineralizing bone. See col. 2, lines 13-37, col. 3, lines 24-50; col. 7, lines 1-31. It would have been obvious to one having ordinary skill in the art at the time the invention was made to take the invention of Day et al. and manufacture the flanges (26) out of fully or partially demineralized bone as taught by Boyd et al. because it would more closely simulate and conform to the shape of the surrounding vertebre and promote better fusion and flexibility and mobility for the patient during compression and load bearing applications.

#### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Scarborough et al. 6,383,221; Grooms et al. 6,290,718; Robioneck et al. 6,106,557; Henderson et al. 6,066,175 and Tienboon 5,916,267 show related material.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suzette J. Jackson whose work schedule is Monday-Friday 9-6:30 off every other Friday and whose telephone number is 703-308-6516.

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- 10. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3580.
- Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

S. Jackson 24 June 2002

> David H. Willse Primary Examiner